

ABSTRACT

A seat weight sensor for detecting the weight of a seat occupant. The weight sensor has a case mounted between a seat pan and a seat member. One or more strain gauge resistors are mounted in the case. The resistors generate an electrical signal in response to the case being stressed by the weight of the seat occupant. The electrical signal changes as a function of the weight of the occupant. A fastener passes through the seat member, the case, and the seat pan. The fastener secures the sensor between the seat pan and the seat member. The case is adapted to transfer to the strain gage resistor the weight of the occupant up to pre-determined level. The case prevents the strain gage from receiving weight beyond that of the pre-determined level such that the sensor is not damaged by an excessive load. The case also allows the weight sensor to be insensitive to off-axis forces that might otherwise contribute to inaccurate weight readings.